

High Voltage Control System 6B Configuration

1.1 Module configuration

1.1 All output modules will be 6B21 type, 12 bit resolution. They will be configured for 19200 baud, checksum on, slew rate off for 03 through 06, slew rate 2 mA per second for 01 and 02, and EGU data format.

Function	Address	Range	Default	Conversion	Operation
Voltage Coarse Set	01	0-20 mA	0 mA	0 mA=0V 20 mA=8V	0V = 0kV 8V = 100kV
Voltage Fine Set	02	0-20 mA	0 mA	0 mA=0V 20 mA=2V	0V = 0kV 2V = 25kV
Current Limit	03	0-20 mA	0 mA	0 mA=0V 20 mA=10V	0V = 0mA 10V = 16mA
HV On	04	0-20 mA	0 mA	0 mA=0V 20 mA=15V	0V = Off 15V = On
-100 kV Knife Switch	05	0-20 mA	0 mA	0 mA = 0V 20 mA=15V	0V = Grounded 15V = Retracted
Polarized Source Knife Switch	06	0-20 mA	0 mA	0 mA = 0V 20 mA=15V	0V = Grounded 15V = Retracted
Reset Interlock	07	0-20 mA	0 mA	0 mA = 0V 20 mA=10V	0V = No Reset 10V = Reset

1.2 All input modules will be 6B12 type. They will be configured for 19200 baud, checksum on, 60 Hz operation, and EGU data format.

Function	Address	Range	Conversion	Operation
Voltage Monitor	08	+/- 10V	0V=0V 10V=125kV	0V = 0kV 10V = 125kV
Current Monitor	09	+/-10V	0V=0mA 10V=16mA	0V = 0mA 10V = 16mA
AC On	10	+/-50V	0V=Off 20V=On	<1V = Off >20V = On 1V<V<20V = Alarm
Over I	11	+/-50V	0=Okay 20V=Fault	0V = Fault 20V = Clear 1V<V<20V = Alarm
Interlock (doors, drop switch, etc)	12	+/- 50V	0V=Open 20V=Made	0V = Open 20V = Made 1V<V<20V = Alarm
Polarized Source Interlocks	13	+/- 50	0V=Open 20V=Made	0V = Open 20V = Made 1V<V<20V = Alarm
Polarized Source Ross Switch	14	+/- 50V	0V=Open 20V=Made	0V = Open 20V = Made 1V<V<20V = Alarm